

ISRO-ISAC & HAL, Bangalore

A Report on Two Day Industrial Visit to Indian Space Research Organization (ISRO) Satellite Centre (ISAC), Bangalore & HAL Heritage Centre, Bangalore

The department of Computer Science and Engineering had organized an industrial visit for 36 students of the Sixth semester B.E on the 20th March 2018, who were accompanied by three of the faculties of the department.

ISRO Satellite Centre (ISAC) is the lead center of the Indian Space Research Organization (ISRO) responsible for design, development, assembly & integration of communication, navigation, remote sensing, scientific and small satellite missions. For the benefit of students there is a space exhibition center at ISAC. Our students were able to see the exhibition. Scientist Mr. H L Srinivasa explained each and every display unit kept for the exhibition. It includes the models of the first Indian satellite Aryabhata, APPLE, INSAT series etc. Satellites are basically of two types- Indian Remote Sensing (IRS) satellites and communication satellites. IRS-1A was the first remote sensing mission undertaken by the Indian Space Research Organization (ISRO). It was a part-operational, part-experimental mission to develop Indian expertise in satellite imagery.

Interesting part was the tour of the lab areas where the students were shown the making of real satellites in the clean room and were given a glimpse of the equipment and manpower involved in the making, testing and launching of satellites. The tour was extremely informative and greatly benefited the students and enhanced their knowledge about ISRO and its satellites. It was followed by an informative and interesting movie showing the establishment of the organization and the immense achievements of ISRO in the past and its plans for the future.



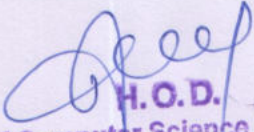
Students also gained knowledge about how television signals are broadcasted with the help of satellites. A working model was demonstrated. Various images of India taken at different angles from the satellites, for the purpose of geographical/weather study were seen. Latest images of moon obtained from satellite was also shown. Different electronic devices used in satellite and space communication were explained.

The most interesting part was the tour of the lab areas where the students were shown the making of real satellites in the clean room and were given a glimpse of the equipment and manpower involved in the making, testing and launching of satellites. The tour was extremely informative and greatly benefitted the students and enhanced their knowledge about ISRO and its satellites. It was followed by an informative and interesting movie showing the establishment of the organization and the immense achievements of ISRO in the past and its plans for the future.

The visit to *HAL Heritage Centre, Bangalore* was organized on 20th March 2018 with the prior permission and guidance of beloved *HOD Dr. Manjunath Kotari*.



The guiding staff onsite was very supportive to all students and guided to her best. Students had practical insights about LCA (Light combat Aircraft division). They also had *audio video presentation* on the development of propulsion system and *gas turbine* followed by visit to *Heritage center* and Aerospace Museum where a number of aircrafts and aero engines are on display. It was a good experience, which has provided exposure to the pre-final year students with the knowledge of Aviation. The students are benefited in terms of the technical details provided by the company. The students also enjoyed learning new things.


H.O.D.
Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOOBBIDRI - 574 225